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SuperStack® 3
Switch 4200 Family
Getting Started Guide

Switch 4200 26-Port (3C17300A)
Switch 4200 50-Port (3C17302A)
Switch 4200 28-Port (3C17304A)

http://www.3com.com/

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ABOUT THIS GUIDE

This guide provides all the information you need to install and use a SuperStack® 3 Switch 4200 in its default state.

This guide is intended for use with the following Switch 4200 Family models:

- *Switch 4200 26-Port (3C17300A) — 24 10BASE-T/100BASE-TX ports, 2 10/100/1000BASE-T ports*
- *Switch 4200 50-Port (3C17302A) — 48 10BASE-T/100BASE-TX ports, 2 10/100/1000BASE-T ports*
- *Switch 4200 28-Port (3C17304A) — 24 10BASE-T/100BASE-TX ports, 2 10/100/1000BASE-T ports and 2 SFP ports*

All procedures described in this guide apply to all models except where stated.

For details on the Switch 4226T (3C17300), Switch 4250T (3C17302) and Switch 4228G (3C17304), refer to the following document:

- *SuperStack 3 Switch 4200 Family Getting Started Guide (part number DUA1730-0AAA04)*

available for download from the 3Com Web site, **www.3Com.com**.

The guide is intended for use by network administrators who are responsible for installing and setting up network equipment; consequently, it assumes a basic working knowledge of LANs (Local Area Networks).

If the information in the release notes that are shipped with your product differ from the information in this guide, follow the instructions in the release notes.

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Most user guides and release notes are available in Adobe Acrobat Reader Portable Document Format (PDF) or HTML on the 3Com World Wide Web site:

http://www.3com.com/

Conventions

Table 1 and Table 2 list conventions that are used throughout this guide.

Table 1 Notice Icons

Icon	Notice Type	Description
	Information note	Information that describes important features or instructions
	Caution	Information that alerts you to potential loss of data or potential damage to an application, system, or device
	Warning	Information that alerts you to potential personal injury

Table 2 Text Conventions

Convention	Description
`Screen displays`	This typeface represents information as it appears on the screen.
`Syntax`	The word "syntax" means that you must evaluate the syntax provided and then supply the appropriate values for the placeholders that appear in angle brackets. Example: To change your password, use the following syntax: `system password <password>` In this example, you must supply a password for <password>.
`Commands`	The word "command" means that you must enter the command exactly as shown and then press Return or Enter. Commands appear in bold. Example: To display port information, enter the following command: **`bridge port detail`**
The words "enter" and "type"	When you see the word "enter" in this guide, you must type something, and then press Return or Enter. Do not press Return or Enter when an instruction simply says "type."
Keyboard key names	If you must press two or more keys simultaneously, the key names are linked with a plus sign (+). Example: Press Ctrl+Alt+Del

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Table 2 Text Conventions (continued)

Convention	Description
Words in *italics*	Italics are used to: ■ Emphasize a point. ■ Denote a new term at the place where it is defined in the text. ■ Identify menu names, menu commands, and software button names. Examples: From the *Help* menu, select *Contents*. Click *OK*.

Related Documentation

In addition to this guide, each Switch documentation set includes the following:

- *SuperStack 3 Switch Implementation Guide*

  This guide contains information on the features supported by your Switch and how they can be used to optimize your network. It is supplied in PDF format on the CD-ROM that accompanies the Switch.

- *SuperStack 3 Switch Management Quick Reference Guide*

  This guide contains:

  - a list of the software features supported by the Switch.
  - a summary of the web interface and command line interface commands for the Switch.

- *SuperStack 3 Switch Management Interface Reference Guide*

  This guide provides detailed information about the web interface and command line interface that enable you to manage the Switch. It is supplied in HTML format on the CD-ROM that accompanies the Switch.

- *Release Notes*

  These notes provide information about the current software release, including new features, modifications, and known problems.

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There are other publications you may find useful, such as:

- Documentation accompanying 3Com Network Supervisor. You can download 3Com Network Supervisor and supporting documentation from the 3Com Web site at:

  www.3com.com/3ns

Accessing Online Documentation

The CD-ROM supplied with your Switch contains the following online documentation:

- *SuperStack 3 Switch Management Quick Reference Guide (PDF format)*
- *SuperStack 3 Switch Implementation Guide* (PDF format)
- *SuperStack 3 Switch Management Interface Reference Guide* (HTML format)

1. To access the documentation insert the CD-ROM into your CD-ROM drive. If your PC has auto-run enabled, a splash screen will be displayed automatically.
2. Select the Documentation section from the contents page.

If the online documentation is to be accessed from a local drive or server, you will need to access the CD-ROM contents via the root directory and copy the files from the CD-ROM to a suitable directory.

- The HTML Reference Guide is stored in the `Docs/reference` directory on the CD-ROM. The documentation is accessed using the `index.htm` file.
- The PDF Quick Reference Guide and PDF Implementation Guide are stored in the `Docs/implementation` directory of the CD-ROM.

3Com recommends that you copy the `Docs/reference` *directory as a whole to maintain the structure of the files.*

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1 INTRODUCING THE SUPERSTACK 3 SWITCH 4200 FAMILY

This chapter contains introductory information about the Switch 4200 Family and how it can be used in your network. It covers summaries of hardware and software features and also the following topics:

- About the Switch 4200 Family
- Switch 4200 Family — Front View Detail
- Switch 4200 Family — Rear View Detail
- Default Settings

This Getting Started Guide describes the following units in the Switch 4200 Family:

- *Switch 26-Port (3C17300A)*
- *Switch 50-Port (3C17302A)*
- *Switch 28-Port (3C17304A)*

For details on the Switch 4226T (3C17300), Switch 4250T (3C17302) and Switch 4228G (3C17304), refer to the following document:

- *SuperStack 3 Switch 4200 Family Getting Started Guide (part number DUA1730-0AAA04)*

available for download from the 3Com Web site, **www.3Com.com**.

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About the Switch 4200 Family

The Switch 4200 Family are stackable 10/100/1000 Mbps devices which consist of:

- 24 or 48 10BASE-T/100BASE-TX ports
- 2 10/100/1000BASE-T ports
- 2 SFP ports (Switch 4200 28-Port only)

The Switch provides high-performance workgroups with a backbone to server connection. You can also add the Switch 4200 Family to any SuperStack® system as your network grows.

Summary of Hardware Features

Table 3 summarizes the hardware features that are supported by the Switch 4200 Family.

Table 3 Hardware features

Feature	Switch 4200 Family
Addresses	■ Up to 8000 supported ■ Up to 64 permanent entries
Auto-negotiation	■ Supported on all ports ■ Auto MDI/MDI-X
Forwarding Modes	Store and Forward
Duplex Modes	Half and full duplex on all 10/100 ports. Full duplex on 1000BASE-T ports and full duplex on SFP ports
Flow Control	In full duplex operation all ports are supported
Smart Auto-sensing	Supported on all ports except SFP ports which are single speed ports.
Traffic Prioritization	Supported (IEEE 802.ID): 2 queues per port
Ethernet and Fast Ethernet Ports	Auto-negotiating 10BASE-T/100BASE-TX ports
Gigabit Ethernet	Auto-negotiating 10/100/1000BASE-T ports
SFP Gigabit Ethernet Ports	Supports fiber Gigabit Ethernet short-wave (SX), long-wave (LX), long-haul (LH70) and copper (T) transceivers in any combination (Switch 4200 28-Port only)
Mounting	19-inch rack or stand-alone mounting

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Switch 4200 Family — Front View Detail

Figure 1 Switch 4200 26-Port (3C17300A) — front view

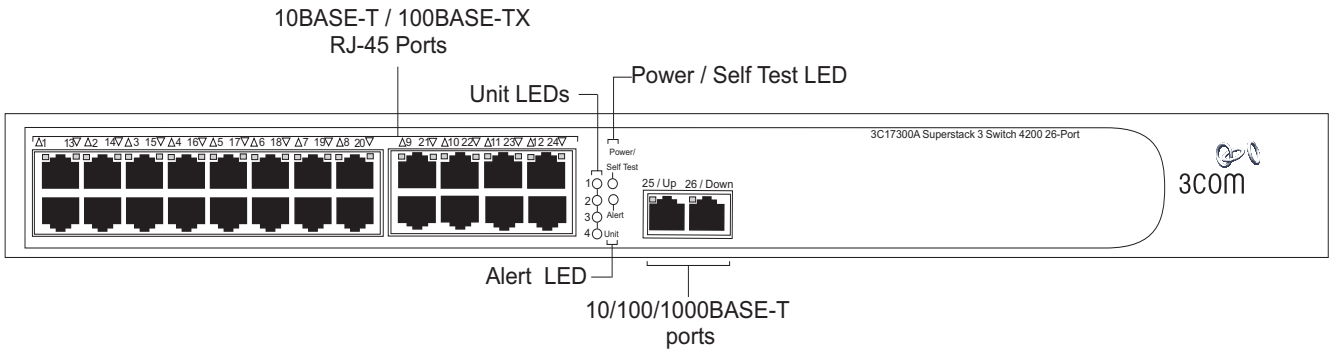


Figure 2 Switch 4200 50-Port (3C17302A) — front view

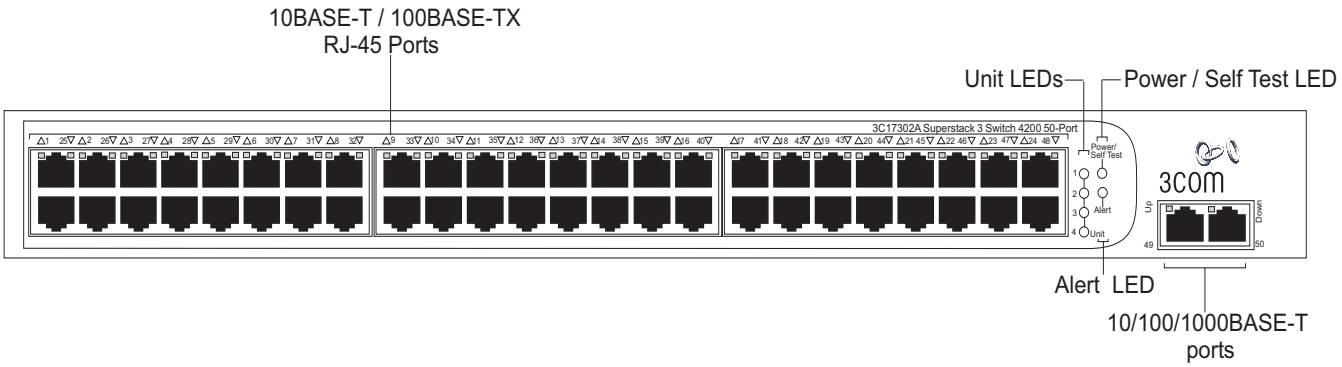
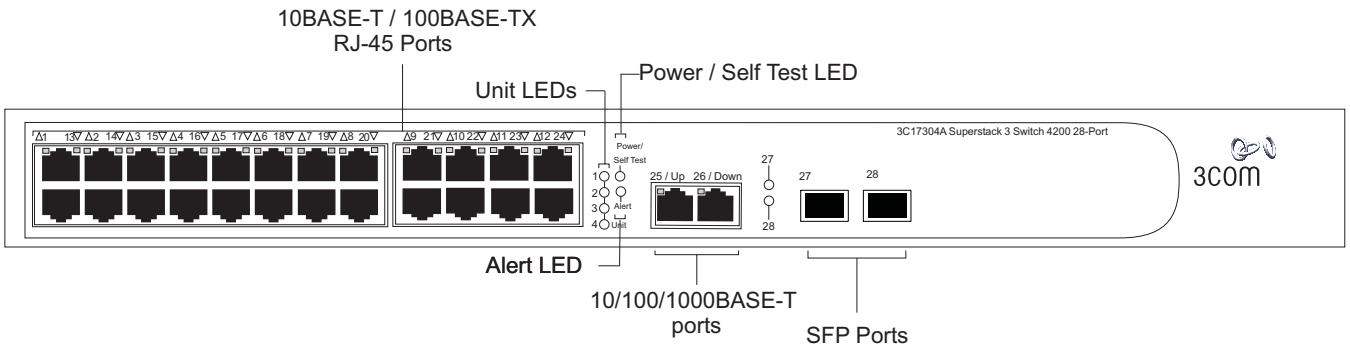


Figure 3 Switch 4200 28-Port (3C17304A) — front view



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WARNING: *RJ-45 Ports. These are shielded RJ-45 data sockets. They cannot be used as standard traditional telephone sockets, or to connect the unit to a traditional PBX or public telephone network. Only connect RJ-45 data connectors, network telephony systems, or network telephones to these sockets.*

Either shielded or unshielded data cables with shielded or unshielded jacks can be connected to these data sockets.

10BASE-T/ 100BASE-TX Ports

The Switch has 24 or 48 auto-negotiating 10BASE-T/100BASE-TX ports configured as Auto MDIX (cross-over). While auto-negotiation is enabled, these ports can automatically detect whether they need to operate in MDI or MDIX mode. Alternatively, you can manually set these ports to 10BASE-T half duplex, 10BASE-T full duplex, 100BASE-TX half duplex or 100BASE-TX full duplex. The maximum segment length is 100 m (328 ft) over Category 5 twisted pair cable.

10/100/1000BASE-T Ports

The Switch has two auto-negotiating 10/100/1000BASE-T ports configured as Auto MDIX (cross-over). While auto-negotiation is enabled, these ports can automatically detect whether they need to operate in MDI or MDIX mode. These ports provide 10/100/1000 Mbps full duplex connections to other Gigabit Ethernet devices. Full duplex allows packets to be transmitted and received simultaneously which, in effect, doubles the potential throughput of a link. These ports require either straight-through or cross-over Category 5 cables with RJ-45 connectors at both ends. The maximum UTP cable length is 100 m (328 ft) over Category 5 cable.

The 10/100/1000BASE-T ports will auto-negotiate to the appropriate speed.

SFP Ports

This section applies to the SuperStack 3 Switch 4200 28-Port only.

The two SFP (Small Form Factor Pluggable) ports support fiber Gigabit Ethernet short-wave (SX), long-wave (LX), long-haul (LH70) and copper (T) transceivers in any combination. This offers you the flexibility of using SFP transceivers to provide connectivity between the Switch and remote 1000 Mbps workgroups or to create a high capacity aggregated link backbone connection.

The SFP ports are capable of auto-negotiating flow control. As the speed and duplex modes are fixed by the media type, only the flow control is

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negotiated with the link partner. Alternatively, auto-negotiation can be disabled and the flow control setting can be manually configured.

LEDs Table 4 lists LEDs visible on the front of the Switch, and how to read their status according to color. For information on using the LEDs for problem solving, see "Solving Problems Indicated by LEDs" on page 54.

It is not possible to determine the duplex mode from the LEDs. For more detailed information, refer to the "SuperStack 3 Switch Management Interface Reference Guide" on the CD-ROM that is supplied with the Switch.

Table 4 LED behavior

LED	Color	Indicates
Port Status LEDs 10BASE-T/100BASE-TX ports		
	Green	A 100 Mbps link is present and the port is enabled.
	Green flashing	Packets are being transmitted/received on the port.
	Yellow	A 10 Mbps link is present and the port is enabled.
	Yellow flashing	Packets are being transmitted/received on the port.
	Green / Yellow alternating	A 10 or 100 Mbps link is present, but the port is disabled.
	Off	No link is present.
Port Status LEDs SFP ports		
	Green	A 1000 Mbps link is present and the port is enabled.
	Green flashing	Packets are being transmitted/received on the port.
Port Status LEDs 10/100/1000BASE-T ports		
	Green	A 1000 Mbps link is present and the port is enabled.
	Green flashing	Packets are being transmitted/received on the port.
	Yellow	A 10 or 100 Mbps link is present and the port is enabled.
	Yellow flashing	Packets are being transmitted/received on the port.
	Green / Yellow alternating	A 10, 100 or 1000 Mbps link present but disabled.
	Off	No link is present.
Unit LEDs		
1–4	Green	When the Switch forms a stack with other Switch 4200 Family units the LED indicates the position of the unit in the stack and that a link is present. Unit LED number 1 can also indicate a stand-alone Switch.
	Off	The Switch initialization process is not complete.

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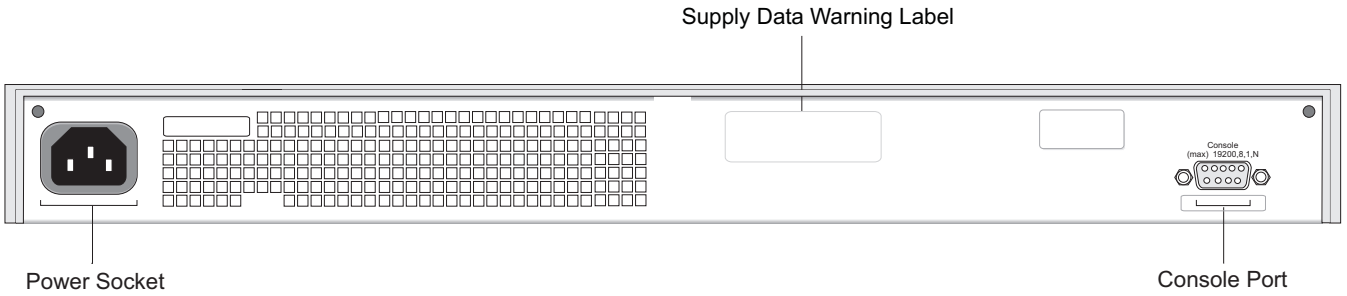
LED	Color	Indicates
Power/Self Test LED		
	Green	The Switch is powered-up and operating normally.
	Green flashing	The Switch is either downloading software or is initializing (which includes running a Power On Self Test).
	Yellow	The Switch has failed its Power On Self Test.
		Refer to Chapter 4 Solving Problems Indicated by LEDs.
	Off	The Switch is not receiving power or there is a fault with the Power Supply Unit.
Alert LED		
	Green flashing	The Switch Alert LED has been configured via the CLI or Web Interface to flash.
	Off	The Switch Alert LED has been configured via the CLI or Web Interface to be off (Default state).

Switch 4200 Family — Rear View Detail

Figure 4 Switch 4200 Family — rear view



Power Socket The Switch automatically adjusts its power setting to any supply voltage in the range 100-240 VAC.

Console Port The console port allows you to connect a terminal and perform remote or local out-of-band management. The console port uses a standard null modem cable and is set to auto-baud, 8 data bits, no parity and 1 stop bit.

The Switch 4226T, Switch 4250T and Switch 4228G have a Redundant Power Supply (RPS) connector on the rear panel. Refer to the documentation supplied with these models for details.

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Default Settings

Table 5 shows the default settings for the Switch 4200 Family:

Table 5 Default Settings

Feature	Switch 4200 Family
Automatic IP Configuration	Enabled
Port Status	Enabled
Port Speed	All ports are auto-negotiated, except SFP ports
Duplex Mode	All ports are auto-negotiated, except SFP ports
Flow Control	■ Enabled in half duplex ■ Auto-negotiated in full duplex
Broadcast Storm Control	Enabled
Virtual LANs (VLANs)	All ports belong to the untagged Default VLAN (VLAN 1) with IEEE802.1Q learning operational
IP Multicast Filtering	Filtering enabled
Rapid Spanning Tree Protocol	Enabled
Fast Start	Enabled on all 10/100 Mbps ports Disabled on all 1000 Mbps ports
RMON Alarm	Enabled
Smart Auto-Sensing	Enabled
LACP	(10/100/1000BASE-T ports and SFP ports only) Disabled
Quality of Service (QoS)	All ports prioritize NBX VoIP IP. All ports set to "best effort" for all other traffic.
HOL Protection (QoS)	18 Kb

If you initialize a Switch unit by selecting *System* > *Control* > *Initialize* in the Web interface or by entering **`system control initialize`** in the Command Line Interface, the following settings are retained to allow you to connect to and manage the Switch:

- IP Address
- Subnet Mask
- Default Router

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2 INSTALLING THE SWITCH

This chapter contains the information you need to install and set up the Switch 4200 Family. It covers the following topics:

- Package Contents
- Choosing a Suitable Site
- Rack-mounting
- Placing Units On Top of Each Other
- The Power-up Sequence
- SFP Operation
- Choosing the Correct Cables

WARNING: Safety Information. *Before installing or removing any components from the Switch 4200 Family or carrying out any maintenance procedures, you must read the safety information provided in Appendix A of this guide.*

AVERTISSEMENT: Consignes de sécurité. *Avant d'installer ou d'enlever tout composant du Switch 4200 ou d'entamer une procédure de maintenance, lisez les informations relatives à la sécurité qui se trouvent dans l'Appendice A de ce guide.*

VORSICHT: Sicherheitsinformationen. *Bevor Sie Komponenten aus dem Switch 4200 entfernen oder dem Switch 4200 hinzufuegen oder Instandhaltungsarbeiten verrichten, lesen Sie die Sicherheitsanweisungen, die in Appendix A (Anhang A) in diesem Handbuch aufgefuehrt sind.*

ADVERTENCIA: Información de seguridad. *Antes de instalar o extraer cualquier componente del product o de realizar tareas de mantenimiento, debe leer la información de seguridad facilitada en el Apéndice A de esta guía del usuario.*

AVVERTENZA: Informazioni di sicurezza. *Prima di installare o rimuovere qualsiasi componente dal product o di eseguire qualsiasi*

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procedura di manutenzione, leggere le informazioni di sicurezza riportate nell'Appendice A della presente guida per l'utente.

Package Contents

- Switch unit
- CD-ROM
- Getting Started Guide (this guide)
- Release Notes
- Unit Information Labels
- Warranty Information
- Power Cord
- 2 x Mounting brackets
- 4 x Screws
- 4 x Rubber feet

Choosing a Suitable Site

The Switch is suited for use on a desktop, either free standing or mounted in a standard 19-inch equipment rack. Alternatively, the Switch can be mounted in a wiring closet or equipment room, as an aggregator for other Hubs and Switches. A rack-mounting kit containing two mounting brackets is supplied with the Switch.

CAUTION: *Ensure that the ventilation holes are not obstructed.*

When deciding where to position the Switch, ensure that:

- Cabling is located away from:
  - sources of electrical noise such as radios, transmitters and broadband amplifiers.
  - power lines and fluorescent lighting fixtures
- The Switch is accessible and cables can be connected easily.
- Water or moisture cannot enter the case of the Switch.
- Air-flow is not restricted around the Switch or through the vents in the side of the Switch. 3Com recommends that you provide a minimum of 25mm (1in.) clearance.
- Air temperature around the Switch does not exceed 40 °C (104 °F).

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If the Switch is installed in a 19-inch rack or closed assembly its local air temperature may be greater than room ambient temperature.

- The air is as free from dust as possible.
- The switch is situated away from sources of conductive (electrical) dust, for example, laser printers.
- The unit is installed in a clean, air conditioned environment.
- The AC supply used by the switch is separate to that used by units that generate high levels of AC noise, for example, air-conditioning units and laser printers.
- No more than eight Switch units are placed on top of one another, if the units are free-standing.

Rack-mounting

The Switch 4200 Family are 1U high and will fit in most standard 19-inch racks.

CAUTION: *Disconnect all cables from the Switch before continuing. Remove all self adhesive pads from the underside of the Switch if they have been fitted.*

To rack-mount your Switch:

1. Place the Switch the right way up on a hard flat surface, with the front facing towards you.
2. Locate a mounting bracket over the mounting holes on one side of the Switch, as shown in Figure 5.

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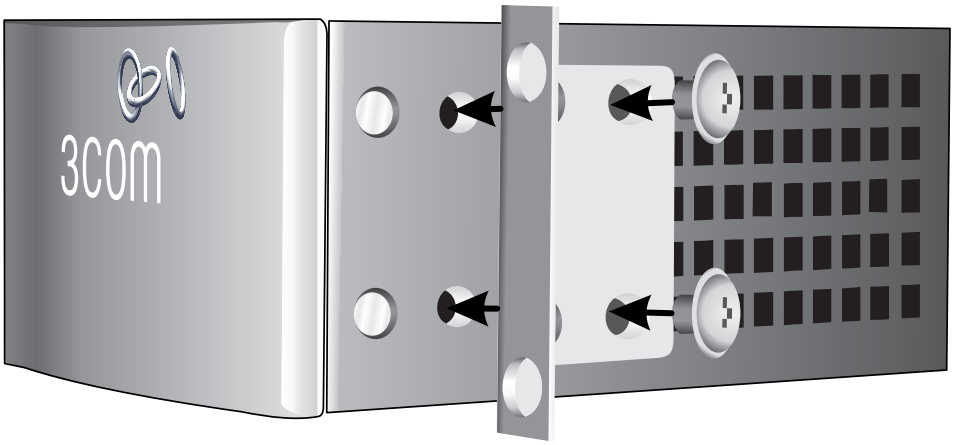
Figure 5 Fitting a bracket for rack-mounting



3 Insert the two screws and tighten with a suitable screwdriver.

You must use the screws supplied with the mounting brackets. Damage caused to the unit by using incorrect screws invalidates your warranty.

4 Repeat steps 2 and 3 for the other side of the Switch.

5 Insert the Switch into the 19-inch rack and secure with suitable screws (not provided). Ensure that ventilation holes are not obstructed.

6 Connect network cabling.

7 Finally place a unit information label on the unit in an easily accessible position. The unit information label shows the following:

- The 3Com product name of the Switch
- The 3Com 3C number of the Switch
- The unique MAC address (Ethernet address) of the Switch
- The serial number of the Switch

You may need this information for fault reporting purposes.

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Placing Units On Top of Each Other

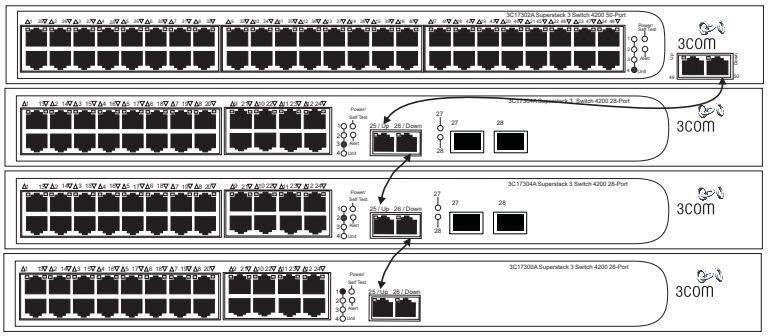
If the Switch units are free-standing, up to eight units can be placed one on top of the other. If you are mixing a variety of SuperStack® 3 Switch and Hub units, the smaller units must be positioned at the top.

If you are placing Switch units one on top of the other, you must use the self-adhesive rubber feet supplied. Apply the pads to the underside of each Switch, sticking one in the marked area at each corner. Place the Switch units on top of each other, ensuring that the feet of the upper unit line up with the recesses of the lower unit.

Stacking Units

Up to four Switch 4200 Family units can be stacked together and then treated as a single manageable unit with one IP address. Any combination of Switch 4200 Family units is allowed in a single stack. The units are connected together via the 10/100/1000BASE-T ports on the front of the unit as shown in Figure 6. Starting from the base of the stack, the port marked with ‘up’ is connected to the port marked with ‘down’ on the unit above. Cable lengths of between 14 cm (5.5 in) and 100 m (328 ft) can be used for stacking.

Figure 6 Stacking example



The unit LEDs will display the unit number in the stack, from 1 at the bottom to 4 at the top.

3Com recommends that when you add a new unit to a stack, you should first initialize it to factory default settings.

Any Switch 4200 unit can be added to the stack, including the Switch 4226T, the Switch 4250T and the Switch 4228G. You must install the latest software version on all units in the stack.

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Stack renumbering occurs when another Switch 4200 Family unit is added to the bottom of an established stack except when the stack is already 4 units high. In this instance the 'down' port on the bottom unit of the existing stack will be disabled and its LED will flash green. You will then not be able to use that port again until the link is lost on that port.

When another Switch 4200 Family unit is added to the top of an established stack, no stack renumbering occurs. If however the unit being added takes the stack height above 4 then the 'up' port on the top unit of the existing stack will be disabled and its LED will flash green. You will then not be able to use that port again until the link is lost on that port.

When removing a Switch from a stack, note the following:

- Removing a Switch 4200 Family unit from the bottom of an existing stack will cause the remaining stack to renumber.
- Removing a Switch 4200 Family unit from the middle of an existing stack will cause the other Switches in the stack to divide into two stacks. Units below the unit removed will not renumber, units above will renumber.
- Removing a Switch 4200 Family unit from the top of an existing stack will have no effect on the remaining stack.

If you are having problems, refer to "Solving Stack Formation Problems" on page 56.

The Power-up Sequence

The following sections describe how to get your Switch 4200 Family powered-up and ready for operation.

Powering-up the Switch 4200 Family

Use the following sequence of steps to power-up the Switch.

1. Plug the power cord into the power socket at the rear of the Switch.
2. Plug the other end of the power cord into your power outlet.

   The Switch powers-up and runs through its Power On Self Test (POST), which takes approximately 10 seconds.

Checking for Correct Operation of LEDs

During the Power On Self Test, all ports on the Switch are disabled and the LEDs light in a set sequence.

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When the POST has completed, check the Power On Self Test LED to make sure that your Switch is operating correctly. Table 6 shows possible colors for the LED.

Table 6 Power/Self Test LED colors

Color	State
Green	The Switch is powered-up and operating normally.
Yellow	The Switch has failed its Power On Self Test.
Off	The Switch is not receiving power.

In addition, check the Unit LEDs on all Switches in the stack. If a Unit LED is off, initialization is not complete. 3Com recommends that you do not use the Switch's management interface until the Unit LED is green.

If there is evidence of a problem, see "Solving Problems Indicated by LEDs" on page 54.

SFP Operation

The following section describes how to insert an SFP transceiver into an SFP port on the Switch 4200 28-Port.

SFP transceivers are hot-insertable and hot-swappable. You can remove them from and insert them into any SFP port without having to power down the Switch.

Approved SFP Transceivers

The following list of approved SFP transceivers is correct at the time of publication.

- 3CSFP91 SFP (SX)
- 3CSFP92 SFP (LX)
- 3CSFP93 SFP (T)
- 3CSFP97 SFP (LH)

To access the latest list of approved SFP transceivers for the Switch on the 3Com Corporation World Wide Web site, enter this URL into your internet browser:

`http://www.3com.com`

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Inserting an SFP Transceiver

To be recognized as valid, the SFP transceiver must have the following characteristics:

- 1000BASE-SX SFP transceiver

  Use this transceiver to connect the Switch directly to a multimode fiber-optic cable.

- 1000BASE-LX SFP transceiver

  Use this transceiver to connect the Switch directly to a single-mode fiber-optic cable or to multimode fiber using a conditioned launch cable.

- 1000BASE-LH70 SFP transceiver

  Use this transceiver to connect the Switch directly to a single-mode fiber-optic cable.

- 1000BASE-T SFP transceiver

  This transceiver uses Category 5 copper cabling with RJ-45 connectors and supports segment lengths of up to 100 m (328 ft).

If the SFP transceiver is faulty, it will not operate within the Switch. See "Solving Hardware Problems" on page 49.

Use of non-3Com SFPs is not recommended. If the SFP transceiver is invalid it will not be recognized by the Switch.

Use the following sequence of steps to activate the SFP ports:

1. The SFP transceiver is keyed and there is only one way in which it can be installed correctly. It is not necessary to power-down your Switch.
2. Hold the transceiver so that the connector is toward you and the product label is visible, as shown in Figure 7. Ensure the wire release lever is closed (in the upright position).
3. Gently slide the transceiver into the SFP port until it clicks.

CAUTION: *SFP transceivers are keyed and can be properly inserted only one way. If the transceiver does not click when you insert it, remove it, turn it over, and reinsert it.*

4. Remove the plastic protective cover if fitted.
5. Use the appropriate cable to connect the transceiver to a suitable device.

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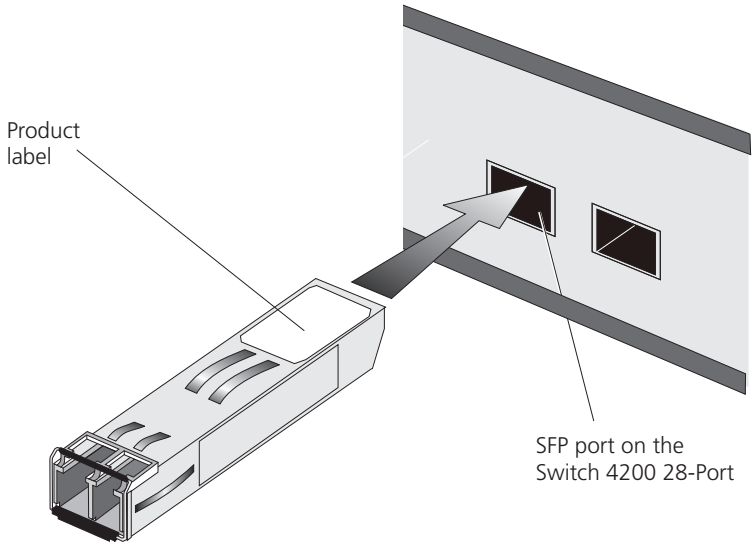
Figure 7 Inserting an SFP Transceiver



6 Check the LEDs on the front of the Switch to ensure that it is operating correctly. Refer to "LEDs" on page 16 for more information.

Removing an SFP Transceiver

If you wish to remove a transceiver (it is not necessary to power-down your Switch):

1 Disconnect the cable from the transceiver.

2 Move the wire release lever downwards until it is pointing toward you.

3 Pull the wire release lever toward you to release the catch mechanism; the transceiver will then easily slide out.

Choosing the Correct Cables

All of the ports on the front of the Switch 4200 Family are Auto-MDIX, that is they have a cross-over capability. The port can automatically detect whether it needs to operate in MDI or MDIX mode. Therefore you can make a connection to a port with a straight-through (MDI) or a cross-over cable (MDIX).

The Auto-MDIX feature only operates when auto-negotiation is enabled.

If auto-negotiation is disabled, all the Switch ports are configured as MDIX (cross-over). If you want to make a connection to another MDIX

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port, you need a *cross-over* cable. Many ports on workstations and servers are configured as MDI (straight-through). If you want to make a connection to an MDI port, you need to use a standard *straight-through* cable. See Table 7.

3Com recommends that you use Category 5 twisted pair cable — the maximum segment length for this type of cable is 100 m (328 ft).

CAUTION: *If you want to install the Switch using a Category 5E or Category 6 cable, 3Com recommends that you briefly connect the cable to a grounded port before connecting network equipment. If you do not, the cables Electrostatic Discharge (ESD) may damage the Switch's port.*

You can create a grounded port by connecting all wires at one end of a UTP cable to an earth ground point, and the other end to a female RJ-45 connector located, for example, on a Switch rack or patch panel. The RJ-45 connector is now a grounded port.

Table 7 Cables required to connect the Switch 4200 Family to other devices if auto-negotiation is disabled

	Cross-over Cable	Straight-through Cable
Switch to Switch (MDIX to MDIX)	✓	×
Switch to Hub (MDIX to MDIX)	✓	×
Switch to PC (NIC) (MDIX to MDI)	×	✓

Choosing the Correct Fiber Cables

Choose from the following cable options:

- The 1000BASE-SX SFP ports can be connected to multimode fiber cables only.
- The 1000BASE-LX and LH70 SFP ports can be connected to single-mode fiber cables. The 1000BASE-LX SFP ports can also be connected to multimode fiber cables using a conditioned launch cable.

For detailed information on fiber cable specifications, refer to the SuperStack 3 Implementation Guide that accompanies your Switch.

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If you wish to connect a 1000BASE-SX LC port to a fiber port with a different type of connector, for example, SC or ST please contact your network supplier for a suitable patch cable.

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3 SETTING UP FOR MANAGEMENT

Your Switch can operate in its default state, that is, you can install it and it will work straight away (plug-and-play). However, to make full use of the features offered by the Switch, and to change and monitor the way it works, you have to access the management software that resides on the Switch. This is known as managing the Switch.

Managing the Switch can help you to improve the efficiency of the Switch and therefore the overall performance of your network.

This chapter explains the initial set up of the Switch and the different methods of accessing the management software to manage a Switch. It covers the following topics:

- Setting Up Overview
- Manually Configuring IP Information
- Viewing Automatically Configured IP Information
- Methods of Managing a Switch
- Setting Up Command Line Interface Management
- Setting Up Web Interface Management
- Setting Up SNMP Management
- Default Users and Passwords

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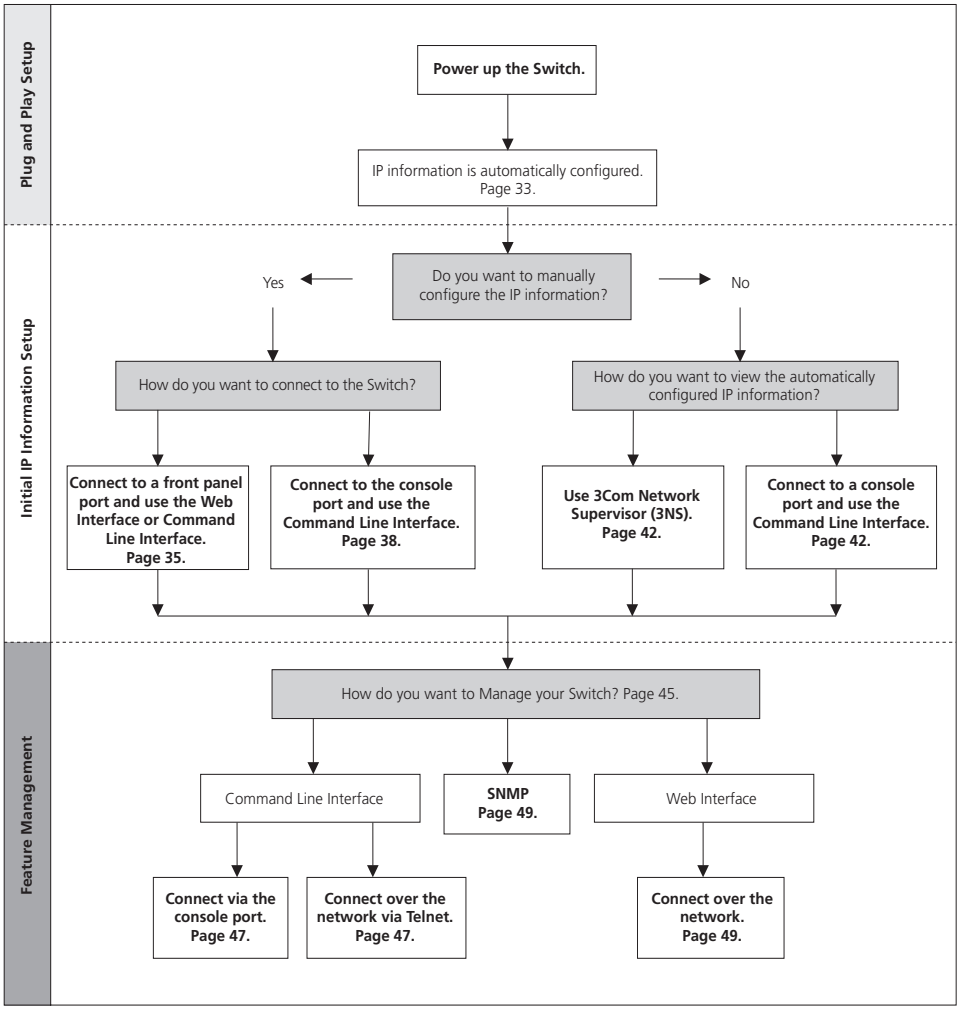
Setting Up Overview

This section gives an overview of what you need to do to get your Switch set up and ready for management when it is in its default state. The whole setup process is summarised in Figure 8. Detailed procedural steps are contained in the sections that follow. In brief, you need to:

- Configure IP information manually for your Switch or view the automatically configured IP information
- Prepare for your chosen method of management

Figure 8 Initial Switch Setup and Management Flow diagram


Plug and Play Setup
Power up the Switch.
IP information is automatically configured. Page 33.
Initial IP Information Setup
Do you want to manually configure the IP information?
Yes
No
How do you want to connect to the Switch?
How do you want to view the automatically configured IP information?
Connect to a front panel port and use the Web Interface or Command Line Interface. Page 35.
Connect to the console port and use the Command Line Interface. Page 38.
Use 3Com Network Supervisor (3NS). Page 42.
Connect to a console port and use the Command Line Interface. Page 42.
Feature Management
How do you want to Manage your Switch? Page 45.
Command Line Interface
SNMP Page 49.
Web Interface
Connect via the console port. Page 47.
Connect over the network via Telnet. Page 47.
Connect over the network. Page 49.

CAUTION: *To protect your Switch from unauthorized access, you must change all three default passwords as soon as possible, even if you do not intend to actively manage your Switch. For more information on default users and changing default passwords, see* "Default Users and Passwords" *on* page 50.

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IP Configuration

You can use one of the following methods to allocate IP information to your Switch (essential if you wish to manage your Switch across the network).

Manual IP Configuration

You can choose to configure the IP information yourself. The Switch remembers the information that you enter until you change it again or set the configuration method to Automatic.

You should use the Manual IP configuration method if:

- you do not have a DHCP or BootP server on your network, or
- you want to remove the risk of the IP address ever changing, or
- your DHCP or BootP server does not allow you to allocate static IP addresses. (Static IP addresses are necessary to ensure that the Switch is always allocated the same IP information.)

For most installations, 3Com recommends that you configure the Switch IP information manually. This makes management simpler and more reliable as it is not dependent on a DHCP or BootP server, and eliminates the risk of the IP address changing.

If you wish to manually enter IP information for your Switch, work through the "Manually Configuring IP Information" section on page 35.

Automatic IP Configuration

By default the Switch tries to configure itself with IP information without requesting user intervention. It tries to obtain an IP address from a DHCP or BootP server on the network.

If neither server is found, the Switch will configure itself with its default IP address 169.254.100.100 if it is operating in a standalone mode, and/or no other Switches on the network have this IP address. If this default IP address is already in use on the network then the Switch detects this and configures itself with an IP address in the range 169.254.1.0 to 169.254.254.255.

This process is known as Auto-IP and is the same mechanism used by Windows 2000. IP addresses configured by Auto-IP are temporary as they cannot be routed but are useful for small networks which are not connected to other networks, or for initial configuration.

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However, as soon as a DHCP or BootP server is detected, the Switch will configure itself with the IP address allocated by that server.

When using automatic IP configuration it is important that the IP address of the Switch is static, otherwise you will not know what the IP address is and it will be difficult to manage. Most DHCP and BootP servers allow static IP addresses to be configured so that you know what IP address will be allocated to the Switch. Refer to the documentation that accompanies your DHCP/BootP server.

For a detailed description of how automatic IP configuration operates, please refer to the Implementation Guide on the CD-ROM that accompanies your Switch or on the 3Com Web site.

You should use the automatic IP configuration method if:

- your network uses DHCP or BootP to allocate IP information, or
- flexibility is needed. If the Switch is re-deployed onto a different subnet, it will automatically reconfigure itself with an appropriate IP address, instead of you having to manually reconfigure the Switch.

If you use the automatic IP configuration method, you need to discover the automatically allocated IP information before you can begin management. Work through the "Viewing Automatically Configured IP Information" section on page 42.

Preparing for Management

Once your Switch's initial set up is complete you can set up your chosen management method as described in "Methods of Managing a Switch" on page 45.

For detailed information about the specific web interface operations and command line interface commands and problem solving, refer to the "SuperStack 3 Switch Management Interface Reference Guide" on the CD-ROM that is supplied with the Switch or on the 3Com Web site.

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Manually Configuring IP Information

You can manually configure the Switch IP information in the following ways:

- Connecting to a front panel port — Connect a workstation using an Ethernet cable to a front panel port of the Switch. You can then manually enter IP information using the web interface or the command line interface (CLI).
- Connecting to the console port — Connect a workstation using a console cable to the console port of the Switch. You can then manually enter IP information using the command line interface (CLI).

Connecting to a Front Panel Port

To set up your Switch manually you can make a connection to a front panel port. You must do this whilst the Switch is offline, that is, before you connect the Switch to a network.

The procedure described in this section assumes the unit has been powered up in standalone mode and has the default IP address of 169.254.100.100.

Pre-requisites

- A workstation running Windows 2000, Windows XP or Windows Server 2003, Red Hat Linux 9, Solaris 7 or Solaris 9.
- A Network Interface Card (NIC).
- A Category 5 twisted pair Ethernet cable with RJ-45 connectors.
- A suitable Web browser — refer to "Choosing a Browser" on page 48.
- You need to have the following so that you can manually set up the Switch with IP information:
  - IP address
  - subnet mask
  - default gateway

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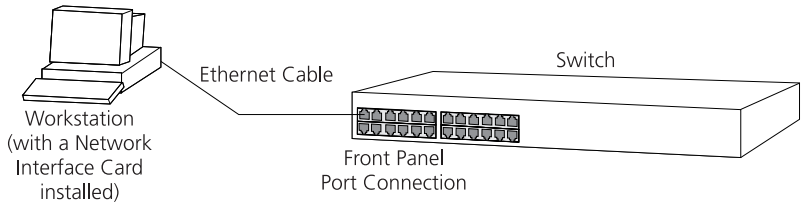
Connecting the Workstation to the Switch

1 Connect the workstation to a front panel port using an Ethernet cable as shown in Figure 9.

Figure 9 Connecting a workstation to the Switch via a front panel port



To connect the cable:

a Attach an RJ-45 connector at one end of the Ethernet cable to the Network Interface Card (NIC) in the workstation.

b Connect the RJ-45 connector at the other end of the cable to one of the front panel ports on the Switch.

Do not interconnect the Switch to any other unconfigured Switch.

Configuring the Workstation with IP Information

You need to change the IP address and subnet mask of the workstation that you have connected to the Switch. Make a note of the existing settings so you can return to them later. Change the workstation to the following settings:

- IP address — **`169.254.100.99`**
- Subnet mask — **`255.255.0.0`**

Setting Up the Switch with IP Information

You are now ready to manually set up the Switch with IP information. You can do this using the Web interface or the command line interface (CLI) via telnet.

Using the Web Interface

1 Power-up the Switch. This takes approximately one minute.

2 Open a suitable Web browser and enter **`169.254.100.100`** in the *Location Address* field. This is the default IP address that is automatically assigned to an offline unit.

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If there is no response, wait for one minute then re-enter the default IP address.

3 At the login and password prompts, enter **`admin`** as your user name and press Return at the password prompt (default user name and password). If you have logged on correctly, a set of Getting Started pages are displayed.

4 The Getting Started pages allow you to enter basic setup information for the Switch. Select **`Manual`** and then enter the IP address, subnet mask, and default gateway that you want the Switch to use when it is connected to the network. The final page displays a summary of the information entered.

The initial set up of your Switch is now complete and the Switch is ready for you to set up your chosen management method. See "Methods of Managing a Switch" on page 45.

Using Command Line Interface via Telnet

Accessing the Command Line Interface via Telnet or Windows HyperTerminal using TCP/IP may not work correctly on some platforms unless it has been configured to send line feeds with carriage returns.

To set this for telnet enter **`set crlf`** when in command mode. To set this for HyperTerminal click on the Settings tab in the Properties screen, click on *ASCII Setup..* and ensure that *Send line ends with line feeds* is checked within the *ASCII Sending* section. You should not configure HyperTerminal in this way if you are using a console cable to make a direct connection to the Switch.

1 To start a Telnet session to the unit, click *Start* in Microsoft Windows 2000, XP or 2003 Server.

- **a** Click *Run*.
- **b** In the dialogue box that appears type the default IP address of the unit, that is: **`Telnet 169.254.100.100`**
- **c** Click *OK*.

2 Press *Enter* to open a login prompt.

If the login prompt does not begin immediately, press Return a few times until it starts.

3 At the login and password prompts, enter **`admin`** as your user name and press Return at the password prompt. If you have logged on correctly, the

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top-level menu of the command line interface is displayed as shown in the example in Figure 10.

Figure 10 Example top-level command line interface menu

```
Menu options: --------------3Com Superstack 3 Switch 4200---------------
bridge              - Administer bridge-wide parameters
gettingStarted      - Basic device configuration
logout              - Logout of the Command Line Interface
physicalInterface   - Administer physical interfaces
protocol            - Administer protocols
security            - Administer security
system              - Administer sytem-level functions
trafficManagement   - Administer traffic management

Type  ? For help
------------------------------(1)-----------------------------------
Select menu option:
```

4 At the Select menu option prompt you can either:

- enter the **`protocol ip basicConfig`** command. At the `Enter configuration method` prompt enter **`manual`**. The screen prompts you to enter IP information.

or

- enter the **`gettingStarted`** command. At the `Enter configuration method` prompt enter **`manual`**. The screen prompts you to enter IP information.

5 Enter the IP address, subnet mask, and gateway IP address for the Switch. The screen displays a summary of the information entered.

The initial set up of your Switch is now complete and the Switch is ready for you to set up your chosen management method. See "Methods of Managing a Switch" on page 45.

Connecting to the Console Port

To set up your Switch manually you can alternatively make a connection to the console port (this example describes a local connection to the console port, rather than a remote one via a modem). You can do this whilst the Switch is offline, that is, before you connect the Switch to a network, or whilst the Switch is online, that is, connected to a network.

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Pre-requisites

- A workstation with terminal emulation software installed, such as Microsoft Hyperterminal. This software allows you to communicate with the Switch via the console port directly, or through a modem.
- Documentation supplied with the terminal emulation software.
- A suitable cable:
  - A standard null modem cable — if you are connecting directly to the console port, or
  - A standard modem cable — if you are connecting to the console port using a modem.

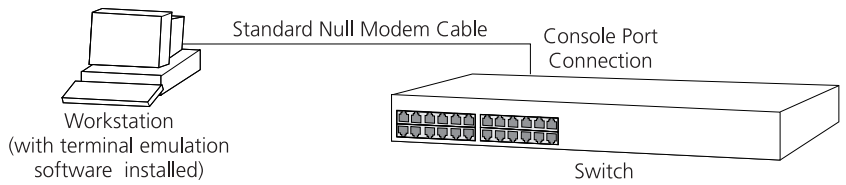
You can find pin-out diagrams for both cables in Appendix B *on* page 69.

- You need to have the following so that you can manually set up the Switch with IP information:
  - IP address
  - subnet mask
  - default gateway

Connecting the Workstation to the Switch

1 Connect the workstation to the console port using a standard null modem cable as shown in Figure 11.

Figure 11 Connecting a workstation to the Switch via the console port



To connect the cable:

a Attach the female connector on the cable to the male connector on the console port of the Switch.

b Tighten the retaining screws on the cable to prevent it from being loosened.

c Connect the other end of the cable to one of the serial ports (also known as a COM port) on your workstation.

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2 Open your terminal emulation software and configure the COM port settings to which you have connected the cable. The settings should be set to match the default settings for the Switch, which are:

- 19,200 baud
- 8 data bits
- no parity
- 1 stop bit
- no hardware flow control

Refer to the documentation that accompanies the terminal emulation software for more information.

Setting Up the Switch with IP Information

You are now ready to manually set up the Switch with IP information using the command line interface.

1 The command line interface login sequence begins as soon as the Switch detects a connection to its console port.

If the login prompt does not begin immediately, press Return a few times until it starts.

2 At the login and password prompts, enter **`admin`** as your user name and press Return at the password prompt. If you have logged on correctly, the top-level menu of the command line interface is displayed as shown in the example in Figure 12.

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Figure 12 Example top-level command line interface menu

```
Menu options: --------------3Com Superstack 3 Switch 4200---------------
bridge              - Administer bridge-wide parameters
gettingStarted      - Basic device configuration
logout              - Logout of the Command Line Interface
physicalInterface   - Administer physical interfaces
protocol            - Administer protocols
security            - Administer security
system              - Administer sytem-level functions
trafficManagement   - Administer traffic management

Type  ? For help
------------------------------(1)-----------------------------------
Select menu option:
```

3 At the Select menu option prompt you can either:

- enter the **`protocol ip basicConfig`** command. At the `Enter configuration method` prompt enter **`manual`**. The screen prompts you to enter IP information.

or

- enter the **`gettingStarted`** command. At the `Enter configuration method` prompt enter **`manual`**. The screen prompts you to enter IP information.

4 Enter the IP address, subnet mask, and gateway IP address for the Switch. The screen displays a summary of the information entered.

The initial set up of your Switch is now complete and the Switch is ready for you to set up your chosen management method. See "Methods of Managing a Switch" on page 45.

If you do not intend to use the command line interface via the console port to manage the Switch, you can disconnect the serial cable and close the terminal emulator software.

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Viewing Automatically Configured IP Information

If you allow the Switch to automatically configure its own IP information you need to discover and view the IP information before you can begin to manage the Switch. You can discover the IP information in two ways:

- Using 3Com Network Supervisor — This application will auto-discover the Switch and display the automatically allocated IP information assigned to the Switch.
- Connecting to the Console Port — Connect a workstation using a console cable to the console port of the Switch. You can then view the IP information automatically assigned to the Switch using the command line interface (CLI).

Using 3Com Network Supervisor

You can use the 3Com Network Supervisor application provided on the CD-ROM that accompanies your Switch to discover the automatically allocated IP information.

1. Connect your Switch to the network.
2. Power-up the Switch and wait for two minutes.
3. Launch 3Com Network Supervisor and run the Auto-discovery wizard.

   3Com Network Supervisor will auto-discover the new Switch and display the IP information that has been automatically allocated to the Switch.

Most DHCP and BootP servers allow static IP addresses to be configured so that you know what IP address the Switch will be given. Refer to the documentation that accompanies your DHCP or BootP server.

If your network does not have a DHCP or BootP server, the workstation running 3Com Network Supervisor must be on the same subnet as the Switch, because Auto-IP addresses are non-routable.

Connecting to the Console Port

Alternatively, you can view the automatically configured IP information via the command line interface (CLI) through a connection to the console port. (This example describes a local connection to the console port, rather than a remote one via a modem.)

Pre-requisites

- A workstation with terminal emulation software installed, such as Microsoft Hyperterminal. This software allows you to communicate with the Switch via the console port directly, or through a modem.
- Documentation supplied with the terminal emulation software.

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- A suitable cable:
  - A standard null modem cable — if you are connecting directly to the console port, or
  - A standard modem cable — if you are connecting to the console port using a modem.

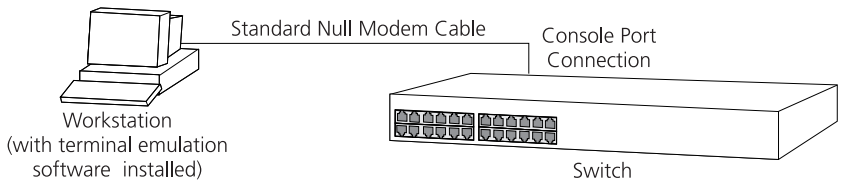
You can find pin-out diagrams for both cables in Appendix B *on* page 69.

- A Category 5 twisted pair Ethernet cable with RJ-45 connectors to connect your Switch to the network.

Connecting the Workstation to the Switch

1 Connect the workstation to the console port using a standard null modem cable as shown in Figure 13.

Figure 13 Connecting a workstation to the Switch via the console port



To connect the cable:

a Attach the female connector on the cable to the male connector on the console port of the Switch.

b Tighten the retaining screws on the cable to prevent it from being loosened.

c Connect the other end of the cable to one of the serial ports (also known as a COM port) on your workstation.

2 Open your terminal emulation software and configure the COM port settings to which you have connected the cable. The settings should be set to match the default settings for the Switch, which are:

- 19,200 baud
- 8 data bits
- no parity
- 1 stop bit
- no hardware flow control

Refer to the documentation that accompanies the terminal emulation software for more information.

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Viewing IP Information via the Console Port

You are now ready to view the automatically allocated IP information using the command line interface.

1 Connect your Switch to the network using an Ethernet cable. As soon as a network connection is made the Switch begins the automatic IP configuration process.

The automatic IP configuration process usually completes within one minute.

If there is no response from a DHCP server within 30 seconds, the Auto-IP configuration mechanism attempts to allocate the default IP address 169.254.100.100. If this address is not available, it then allocates an IP address in the range of 169.254.x.y (where x is in the range 1 to 254, and y is in the range 0 to 255).

2 The command line interface login sequence begins as soon as the Switch detects a connection to its console port.

If the login prompt does not begin immediately, press Return a few times until it starts.

3 At the login and password prompts, enter **admin** as your user name and press Return at the password prompt. If you have logged on correctly, the top-level menu of the command line interface is displayed as shown in the example in Figure 14.

Figure 14 Example top-level command line interface menu

```
Menu options: --------------3Com Superstack 3 Switch 4200---------------
bridge              - Administer bridge-wide parameters
gettingStarted      - Basic device configuration
logout              - Logout of the Command Line Interface
physicalInterface   - Administer physical interfaces
protocol            - Administer protocols
security            - Administer security
system              - Administer sytem-level functions
trafficManagement   - Administer traffic management

Type  ? For help
------------------------------(1)-----------------------------------
Select menu option:
```

4 At the Select menu option prompt enter the **protocol ip interface summary** command. At the `Select IP interfaces`

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prompt enter **`all`**. A summary of the automatically allocated IP information is displayed. Make a note of the Network IP Address.

The initial set up of your Switch is now complete and the Switch is ready for you to set up your chosen management method. See "Methods of Managing a Switch" on page 45.

If you do not intend to use the command line interface via the console port to manage the Switch, you can disconnect the serial cable and close the terminal emulator software.

Methods of Managing a Switch

Once you have completed the initial set up of your Switch, you can decide how you wish to manage the Switch. You can use one of the following methods:

- Command line interface management
- Web interface management
- SNMP management

Command Line Interface Management

Each Switch has a command line interface (CLI) that allows you to manage the Switch from a workstation, either locally via a console port connection (see Figure 15), or remotely over the network (see Figure 16).

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Figure 15 CLI management via the console port

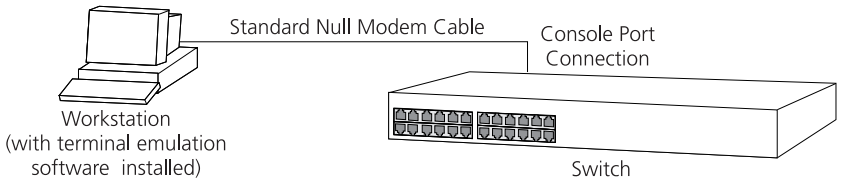
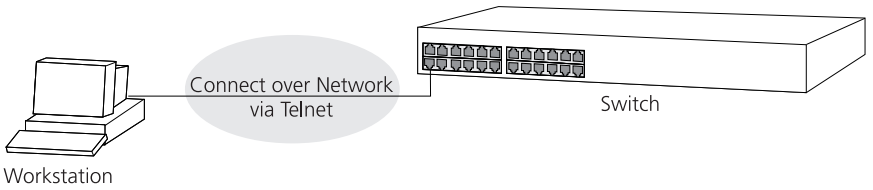


Figure 16 CLI management over the network

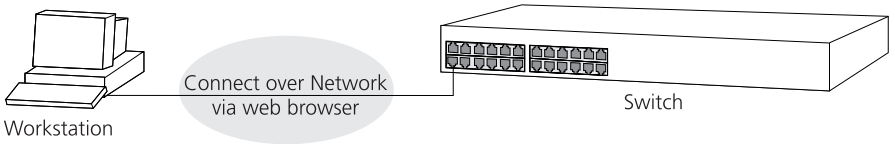


Refer to "Setting Up Command Line Interface Management" on page 47.

Web Interface Management

Each Switch has an internal set of web pages that allow you to manage the Switch using a Web browser remotely over an IP network (see Figure 17).

Figure 17 Web interface management over the network



Refer to "Setting Up Web Interface Management" on page 48.

SNMP Management

You can manage a Switch using any network management workstation running the Simple Network Management Protocol (SNMP) as shown in Figure 18. For example, you can use the 3Com Network Supervisor software that is provided on the CD-ROM that accompanies your Switch.

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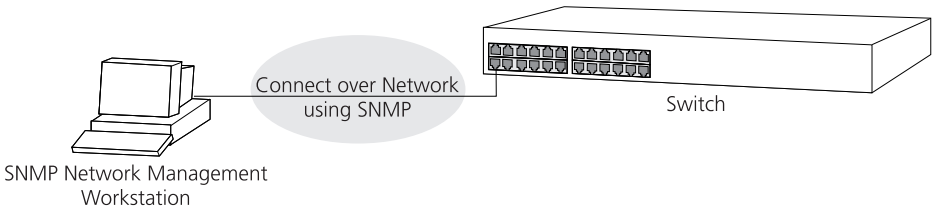
Figure 18 SNMP management over the network



Refer to "Setting Up SNMP Management" on page 49.

Setting Up Command Line Interface Management

This section describes how you can set up command line interface management using a local console port connection or over the network.

CLI Management via the Console Port

To manage a Switch using the command line interface via the local console port connection:

1. Ensure you have connected your workstation to the console port correctly as described in "Connecting to the Console Port" on page 38.
2. Your Switch is now ready to continue being managed and/or configured through the CLI via its console port.

CLI Management over the Network

To manage a Switch using the command line interface over a network using Telnet:

1. Ensure you have already set up the Switch with IP information as described in "Setting Up Overview" on page 32.
2. Check that you have the IP protocol correctly installed on your management workstation. You can check this by trying to browse the World Wide Web. If you can browse, the IP protocol is installed.
3. Check you can communicate with the Switch by entering a **`ping`** command at the DOS prompt in the following format:

   `c:\ ping xxx.xxx.xxx.xxx`
   (where xxx.xxx.xxx.xxx is the IP address of the Switch)

   If you get an error message, check that your IP information has been entered correctly and the Switch is powered up.

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4 To open a Telnet session via the DOS prompt, enter the IP address of the Switch that you wish to manage in the following format:

```
>telnet xxx.xxx.xxx.xxx
```

(where xxx.xxx.xxx.xxx is the IP address of the Switch)

If opening a Telnet session via third party software you will need to enter the IP address in the format suitable for that software.

5 At the login and password prompts, enter **admin** as your user name and press Return at the password prompt (or the password of your choice if you have already modified the default passwords).

If the login prompt does not display immediately, press Return a few times until it starts.

6 If you have logged on correctly, the top-level menu of the command line interface for the Switch you wish to manage is displayed as shown in Figure 12 on page 41.

Setting Up Web Interface Management

This section describes how you can set up web interface management over the network.

Pre-requisites

- Ensure you have already set up the Switch with IP information as described in "Setting Up Overview" on page 32.
- Ensure that the Switch is connected to the network using a Category 5 twisted pair Ethernet cable with RJ-45 connectors.
- A suitable Web browser.

Choosing a Browser

To display the web interface correctly, use one of the following Web browser and platform combinations, with pop-ups enabled:

Table 8 Supported Web Browsers and Platforms

	Windows 2000	Windows XP	Windows Server 2003	Red Hat Linux 9	Solaris 7/9
Netscape 7.1	✓	✓	✗	✓	✓
Internet Explorer 5.5	✓	✓	✓	✗	✗
Internet Explorer 6.0	✓	✓	✓	✗	✗

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	Windows 2000	Windows XP	Windows Server 2003	Red Hat Linux 9	Solaris 7/9
Mozilla 1.0	✓	✓	✗	✓	✓

For the browser to operate the web interface correctly, JavaScript™ and Cascading Style Sheets must be enabled on your browser. These features are enabled on a browser by default. You will only need to enable them if you have changed your browser settings.

Web Management Over the Network

To manage a Switch using the web interface over an IP network:

1. Check that you have the IP protocol correctly installed on your management workstation. You can check this by trying to browse the World Wide Web. If you can browse, the IP protocol is installed.
2. Check you can communicate with the Switch by entering a **`ping`** command at the DOS prompt in the following format:

   `c:\ ping xxx.xxx.xxx.xxx`
   (where xxx.xxx.xxx.xxx is the IP address of the Switch)

   If you get an error message, check that your IP information has been entered correctly and the Switch is powered up.
3. Open your web browser and enter the IP address of the Switch that you wish to manage in the URL locator, for example, in the following format:

   `http://xxx.xxx.xxx.xxx`
4. At the login and password prompts, enter **`admin`** as your user name and press Return at the password prompt (or the password of your choice if you have already modified the default passwords).
5. Click on the *Device View* button to display the web management options.

Setting Up SNMP Management

Any network management application running the Simple Network Management Protocol (SNMP) can manage a Switch if:

- The correct Management Information Bases (MIBs) are installed on the management workstation.
- The management workstation is connected to the Switch using a port in VLAN 1 (the Default VLAN). By default, all ports on the Switch are in VLAN 1.

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You can use the 3Com Network Supervisor application that is provided on the CD-ROM that accompanies your Switch to provide SNMP management for your Switch. If you use 3Com Network Supervisor it automatically loads the correct MIBs and necessary files onto your workstation.

Pre-requisites

- Documentation supplied with the SNMP network management application software.

To manage your Switch using an SNMP network management application, you need to specify SNMP community strings for the users defined on the Switch. You can do this using the command line interface **`system management snmp community`** *command — refer to the command line interface section of the "SuperStack 3 Switch Management Interface Reference Guide" for more information.*

Default Users and Passwords

If you intend to manage the Switch using the web interface or the command line interface, or to change the default passwords, you need to log in with a valid user name and password. The Switch has three default user names, and each user name has a different password and level of access. These default users are listed in Table 9.

CAUTION: *To protect your Switch from unauthorized access, you must change all three default passwords as soon as possible, even if you do not intend to actively manage your Switch*

Table 9 Default Users

User Name	Default Password	Access Level
monitor	monitor	monitor — the user can view all manageable parameters, except special/security features, but cannot change any manageable parameters.
manager	manager	manager — the user can access and change the operational parameters but not special/security features
admin	(no password)	security — the user can access and change all manageable parameters

Use the admin default user name (no password) to login and carry out initial Switch setup.

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Changing Default Passwords

You can change the default passwords using either:

- The **`gettingStarted`** command on the CLI, or
- The **`security device user modify`** command on the CLI, or
- The *Security* > *Device* > *User* > *Modify* operation on the web interface.

For more information about default users and passwords, refer to the "Superstack 3 Switch Management Interface Reference Guide" on the Switch CD-ROM.

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4 PROBLEM SOLVING

This chapter helps you to diagnose and solve problems you may have with the operation of your Switch. There is also an explanation of IP addressing.

The topics covered are:

- Solving Problems Indicated by LEDs
- Solving Hardware Problems
- Solving Communication Problems
- Solving Software Upgrade Problems

If you experience a problem that is not listed here, it may be included in the support section of the SuperStack 3 Switch Management Interface Reference Guide on the CD-ROM that accompanies your Switch.

For Technical Support information, see Appendix D.

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Solving Problems Indicated by LEDs

If the LEDs on the Switch indicate a problem, refer to the list of suggested solutions below.

The Power LED does not light

Check that the power cable is firmly connected to the Switch and to the supply outlet. If the connection is secure and there is still no power, you may have a faulty power cord or an internal fault. Firstly, check the power cord by:

- testing it in another device
- connecting a working power cord to the 'problem' device

then contact your supplier for advice.

On powering-up, the Power/Self Test LED lights yellow

The Switch unit has failed its Power On Self Test (POST) because of an internal problem. If a port has failed it's POST, it's LED will flash green/yellow alternately to indicate that the port is disabled. Contact your supplier for advice.

A link is connected and yet the Status LED for the port does not light

Check that:

- The Switch and the device at the other end of the link (or cable) are connected securely.
- The devices at both ends of the link are powered-up
- The quality of cable is satisfactory
- Auto-negotiation settings are the same at both ends.

  Auto-negotiation problems will occur with all ports where auto-negotiation is disabled and incorrect cables are being used (cross-over or straight).

Solving Hardware Problems

Error message indicating that the SFP transceiver is invalid.

The Switch has identified that the SFP does not meet the minimum requirements for the Switch and has disabled the port. To correct this

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problem, completely remove the SFP and replace it with a 3Com approved SFP. See "Approved SFP Transceivers" on page 26.

Error message indicating that the SFP transceiver is faulty.

To correct this problem, completely remove the SFP and then reinsert it.Alternatively, insert another identical SFP. If the problem persists, contact 3Com Technical Support.

Solving Communication Problems

If you experience communication problems with the Switch, ensure that:

- The Switch IP address has been configured as described in Chapter 3
- If the Switch is separated from your management application by a router, ensure that the default gateway IP address within the Switch is the same as the IP address of the router.
- The Switch's IP address has been entered correctly in your network management application (such as 3Com Network Supervisor).

The following is a brief overview of IP addressing, and how to obtain a registered IP address.

IP Addressing

To be managed correctly, each device on your network (for example a Switch or Hub) must have a unique IP address. IP addresses have the format *n.n.n.n* where *n* is a decimal number between 0 and 255. An example IP address is 192.168.100.8.

The IP address is split into two parts:

- The first part ('192.168.100' in the example) identifies the network on which the device resides
- The second part ('.8' in the example) identifies the device within the network

The natural subnet mask for this example is 255.255.255.0.

If your network has a connection to the external IP network, that is, you access the Internet, you must apply for a registered IP address.

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How do you obtain a registered IP Address?

The IP registration system ensures that every IP address used is unique; if you do not have a registered IP address, you may be using an identical address to someone else and your network will not operate correctly.

InterNIC Registration Services is the organization responsible for supplying registered IP addresses. The following contact information is correct at time of publication:

World Wide Web site: **`http://www.internic.net`**

If your IP network is internal to your organization only, that is, you do not access the Internet, you may use any arbitrary IP address as long as it is not being used by another device on your network. 3Com suggests you use addresses in the series 192.160.100.X (where X is a number between 1 and 254) with a subnet mask of 255.255.255.0.

These suggested IP addresses are part of a group of IP addresses that have been set aside specially for use 'in house' only.

Solving Stack Formation Problems

If you are having problems with correctly forming a stack, first ensure that Spanning Tree is enabled. If it is enabled, do the following:

1. Power off all units in the stack.
2. Check all the cable connections in the stack.
3. Power on all units in the stack.

Solving Software Upgrade Problems

You can upgrade the management software of the Switch by using the *System* > *Control* > *Software Upgrade* operation in the Web Interface, or the `system control softwareUpgrade` command in the command line interface. For details on these options, refer to the Management Interface Reference Guide supplied in HTML format on the CD-ROM that accompanies your Switch.

If you have problems with your software upgrade, refer to the Problem Solving section in the Management Interface Reference Guide.

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A SAFETY INFORMATION

You must read the following safety information before carrying out any installation or removal of components, or any maintenance procedures on the Switch 4200 Family.

WARNING: *Warnings contain directions that you must follow for your personal safety. Follow all directions carefully.*
You must read the following safety information carefully before you install or remove the unit.

AVERTISSEMENT: *Les avertissements présentent des consignes que vous devez respecter pour garantir votre sécurité personnelle. Vous devez respecter attentivement toutes les consignes.*
Nous vous demandons de lire attentivement les consignes suivantes de sécurité avant d'installer ou de retirer l'appareil.

VORSICHT*: Warnhinweise enthalten Anweisungen, die Sie zu Ihrer eigenen Sicherheit befolgen müssen. Alle Anweisungen sind sorgfältig zu befolgen.*
Sie müssen die folgenden Sicherheitsinformationen' sorgfältig durchlesen, bevor Sie das Gerät installieren oder ausbauen.

ADVERTENCIA: *Las advertencias contienen indicaciones que debe respetar por su seguridad personal.*
Siga las indicaciones con cuidado. Lea detenidamente la información de seguridad siguiente antes de instalar o retirar la unidad.

AVVERTENZA: *Le avvertenze contengono istruzioni indispensabili per assicurare la sicurezza personale. Seguire attentamente tutte le indicazioni fornite. Prima di installare o rimuovere l'unità leggere attentamente le seguenti informazioni di sicurezza.*

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Important Safety Information

WARNING: *Installation and removal of the unit must be carried out by qualified personnel only.*

WARNING: *If installing the Switch 4200 Family unit in a stack with SuperStack II or SuperStack 3 units that are shallower than the 4200 Family, the Switch 4200 Family unit must be installed below the narrower units.*

WARNING: *The unit must be earthed (grounded).*

WARNING: *Connect the unit to an earthed power supply to ensure compliance with safety standards.*

WARNING: *Power Cord Set:*
This must be approved for the country where it is used:

U.S.A. and Canada	■ The cord set must be UL-approved and CSA certified. ■ The minimum specification for the flexible cord is: No. 18 AWG Type SV or SJ 3-conductor ■ The cord set must have a rated current capacity of at least 10A. ■ The attachment plug must be an earth-grounding type with a NEMA 5-15P (15A, 125V) or NEMA 6-15P (15A, 250V) configuration.
United Kingdom only	■ The supply plug must comply with BS1363 (3-pin 13 amp) and be fitted with a 5A fuse which complies with BS1362. ■ The mains cord must be <HAR> or <BASEC> marked and be of type H03VVF3GO.75 (minimum).
Europe only:	■ The supply plug must comply with CEE 7/7 (“SCHUKO”). ■ The mains cord must be <HAR> or <BASEC> marked and be of type H03VVF3GO.75 (minimum).
Denmark	■ The supply plug must comply with section 107-2-D1, standard DK2-1a or DK2-5a.
Switzerland	■ The supply plug must comply with SEV/ASE 1011.

WARNING: *The appliance coupler (the connector to the unit and not the wall plug) must have a configuration for mating with an EN60320/IEC320 appliance inlet.*

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WARNING: *The socket outlet must be near to the unit and easily accessible. You can only remove power from the unit by disconnecting the power cord from the outlet.*

WARNING: *This unit operates under SELV (Safety Extra Low Voltage) conditions according to IEC 950. The conditions are only maintained if the equipment to which it is connected also operates under SELV conditions.*

WARNING: *France and Peru only:*
This unit cannot be powered from IT† supplies. If your supplies are of IT type, this unit must be powered by 230V (2P+T) via an isolation transformer ratio 1:1, with the secondary connection point labelled Neutral, connected directly to earth (ground).
†Impédance à la terre.

WARNING: *U.K. only:*
If connecting a modem to the console port of the Switch 4200 Family, only use a modem which is suitable for connection to the telecommunications system.

WARNING: *RJ-45 Ports. These are shielded RJ-45 data sockets. They cannot be used as standard traditional telephone sockets, or to connect the unit to a traditional PBX or public telephone network. Only connect RJ-45 data connectors, network telephony systems, or network telephones to these sockets.*

Either shielded or unshielded data cables with shielded or unshielded jacks can be connected to these data sockets.

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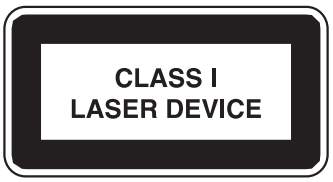
WARNING: *Fiber Optic ports - Optical Safety*



Never look at the transmit laser while it is powered-up. Never look directly at the fiber ports and fiber cable ends when they are powered-up.

WARNING**:** *Use of controls or adjustments of performance or procedures other than those specified herein may result in hazardous laser emissions.*

L'information de Sécurité Importante

AVERTISSEMENT*: L'installation et la dépose de ce groupe doivent être confiés à un personnel qualifié.*

AVERTISSEMENT*: Si vous entassez l'unité Switch avec les unités SuperStack 3 Hub, l'unité Switch 4200 doit être installée en dessous des unités Hub plus étroites.*

AVERTISSEMENT*: Vous devez mettre l'appareil à la terre (à la masse) ce groupe.*

AVERTISSEMENT*: Brancher l'unité à une source de courant mise à la terre pour assurer la conformité aux normes de sécurité.*

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***AVERTISSEMENT**: Cordon électrique:*
Il doit être agréé ans le pays d'utilisation:

Etats-Unis et Canada	■ Le cordon doit avoir reçu l'homologation des UL et un certificat de la CSA ■ Le cordon souple doit respecter, à titre minimum, les spécifications suivantes : ■ calibre 18 AWG ■ type SV ou SJ ■ à 3 conducteurs ■ Le cordon doit être en mesure d'acheminer un courant nominal d'au moins 10 A ■ La prise femelle de branchement doit être du type à mise à la terre (mise à la masse) et respecter la configuration NEMA 5-15P (15 A, 125 V) ou NEMA 6-15P (15 A, 250 V)
Danemark	■ La prise mâle d'alimentation doit respecter la section 107-2 D1 de la norme DK2 1a ou DK2 5a
Europe	■ La prise secteur doit être conforme aux normes CEE 7/7 ("SCHKO") ■ LE cordon secteur doit porter la mention <HAR> ou <BASEC> et doit être de type HO3VVF3GO.75 (minimum).
Suisse	■ La prise mâle d'alimentation doit respecter la norme SEV/ASE 1011

***AVERTISSEMENT**: Le coupleur d'appareil (le connecteur du groupe et non pas la prise murale) doit respecter une configuration qui permet un branchement sur une entrée d'appareil EN60320/CEI 320.*

***AVERTISSEMENT**: La prise secteur doit se trouver à proximité de l'appareil et son accès doit être facile. Vous ne pouvez mettre l'appareil hors circuit qu'en débranchant son cordon électrique au niveau de cette prise.*

***AVERTISSEMENT**: L'appareil fonctionne à une tension extrêmement basse de sécurité qui est conforme à la norme CEI 950. Ces conditions ne sont maintenues que si l'équipement auquel il est raccordé fonctionne dans les mêmes conditions.*

***AVERTISSEMENT**: France et Pérou uniquement:*
Ce groupe ne peut pas être alimenté par un dispositif à impédance à la terre. Si vos alimentations sont du type impédance à la terre, ce groupe doit être alimenté par une tension de 230 V (2 P+T) par le biais d'un transformateur d'isolement à rapport 1:1, avec un point secondaire de

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connexion portant l'appellation Neutre et avec raccordement direct à la terre (masse).

***AVERTISSEMENT**: Points d'accès RJ-45. Ceux-ci sont protégés par des prises de données. Ils ne peuvent pas être utilisés comme prises de téléphone conventionnelles standard, ni pour la connection de l'unité à un réseau téléphonique central privé ou public. Raccorder seulement connecteurs de données RJ-45, systèmes de réseaux de téléphonie ou téléphones de réseaux à ces prises.*

Il est possible de raccorder des câbles protégés ou non protégés avec des jacks protégés ou non protégés à ces prises de données.

***AVERTISSEMENT:** Ports pour fibres optiques – sécurité sur le plan optique*

Ne regardez jamais le laser tant qu'il est sous tension. Ne regardez jamais directement le port à fibres optiques et les embouts de câbles à fibres optiques tant qu'ils sont sous tension.

***AVERTISSEMENT**: L'utilisation de contrôles, de réglages de performances ou de procédures autres que ceux qui sont spécifiés au sein du présent document risquent d'entraîner l'exposition à des rayonnements laser dangereux.*

Wichtige Sicherheitsinformationen

***VORSICHT:** Die Installation und der Ausbau des Geräts darf nur durch Fachpersonal erfolgen.*

***VORSICHT:** Wenn die Switch 4200 Einheit in einer Stapel mit anderen SuperStack 3 Hub Einheiten eingebaut werden soll, muß die Switch 4200 Einheit unter die schmaleren Hub Einheiten eingebaut werden.*

***VORSICHT:** Das Gerät muß geerdet sein.*

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VORSICHT: *Das Gerät muß an eine geerdete Steckdose angeschlossen werden, die europäischen Sicherheitsnormen erfüllt.*

VORSICHT: *Der Anschlußkabelsatz muß mit den Bestimmungen des Landes übereinstimmen, in dem er verwendet werden soll.*

VORSICHT: *Der Gerätestecker (der Anschluß an das Gerät, nicht der Wandsteckdosenstecker) muß eine passende Konfiguration für einen Geräteeingang gemäß EN60320/IEC320 haben.*

VORSICHT: *Die Netzsteckdose muß in der Nähe des Geräts und leicht zugänglich sein. Die Stromversorgung des Geräts kann nur durch Herausziehen des Gerätenetzkabels aus der Netzsteckdose unterbrochen werden.*

VORSICHT: **Europe**

- *Das Netzkabel muß vom Typ HO3VVF3GO.75 (Mindestanforderung) sein und die Aufschrift <HAR> oder <BASEC> tragen.*
- *Der Netzstecker muß die Norm CEE 7/7 erfüllen ("SCHUKO").*

VORSICHT: *Der Betrieb dieses Geräts erfolgt unter den SELV-Bedingungen (Sicherheitskleinstspannung) gemäß IEC 950. Diese Bedingungen sind nur gegeben, wenn auch die an das Gerät angeschlossenen Geräte unter SELV-Bedingungen betrieben werden.*

VORSICHT: *RJ-45-Porte. Diese Porte sind geschützte Datensteckdosen. Sie dürfen weder wie normale traditionelle Telefonsteckdosen noch für die Verbindung der Einheit mit einem traditionellem privatem oder öffentlichem Telefonnetzwerk gebraucht werden. Nur RJ-45-Datenanscluße, Telefonnetzsysteme or Netztelefone an diese Steckdosen anschließen.*

Entweder geschützte oder ungeschützte Buchsen dürfen an diese Datensteckdosen angeschlossen werden.

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VORSICHT: *Faseroptikanschlüsse – Optische Sicherheit*

Niemals ein Übertragungslaser betrachten, während dieses eingeschaltet ist. Niemals direkt auf die Faseransnchlüsse und auf die Faserkabelenden schauen, während diese eingeschaltet sind.

VORSICHT: *Die Verwendung von Steuerelementen oder die Anpassung von Leistungen und Verfahren in anderer als der hierin genannten Weise kann zu gefährlichen Laseremissionen führen.*

Información de seguridad importante

ADVERTENCIA: *La instalación y la extracción de la unidad sólo debe llevarla a cabo personal cualificado.*

ADVERTENCIA: *si instala el Switch 4200 en una pila con unidades SuperStack II o SuperStack 3 que son más estrechas que el Switch 4200 , el Switch 4200 debe instalarse debajo de las unidades más estrechas.*

ADVERTENCIA: *La unidad debe estar conectada a tierra.*

ADVERTENCIA: *Conecte la unidad a una fuente de alimentación con toma de tierra para garantizar el cumplimiento de las normas de seguridad.*

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ADVERTENCIA: *conjunto de cables eléctricos: debe estar homologado para el país donde se utilice:*

EE.UU. y Canadá	■ El conjunto de cables debe estar homologado por UL y tener la certificación CSA. ■ La especificación mínima del cable flexible es: ■ Nº 18 AWG ■ Tipo SV o SJ ■ Tres conductores ■ El conjunto de cables debe tener una capacidad de corriente nominal de al menos 10 A. ■ El enchufe de conexión debe ser de tipo de toma de tierra con una configuración NEMA 5-15P (15 A, 125 V) o NEMA 6-15P (15 A, 250 V).
Sólo para el Reino Unido	■ La toma de alimentación debe cumplir la norma BS1363 (3 patillas, 13 A) e instalarse con un fusible de 5 A que cumpla BS1362. ■ El cable de alimentación de red debe tener la marca <HAR> o <BASEC> y ser de tipo H03VVF3GO.75 (mínimo).
Sólo para Europa	■ La toma de alimentación debe cumplir la norma CEE 7/7 ("SCHUKO"). ■ El cable de alimentación de red debe tener la marca <HAR> o <BASEC> y ser de tipo H03VVF3GO.75 (mínimo).
Dinamarca	■ La toma de alimentación debe cumplir la sección 107-2-D1 de la norma DK2-1a o DK2-5a.
Suiza	■ La toma de alimentación debe cumplir la norma SEV/ASE 1011.

ADVERTENCIA: *el acoplador del equipo (el conector para la unidad y no la toma de la pared) debe tener una configuración que se adapte a una entrada del equipo EN60320/IEC320.*

ADVERTENCIA: *el enchufe debe estar cerca de la unidad y ser de fácil acceso. La única forma de cortar la alimentación de la unidad consiste en desconectar el cable eléctrico de la toma de corriente.*

ADVERTENCIA: *esta unidad funciona en condiciones SELV (voltaje extrabajo de seguridad) de conformidad con la norma IEC 60950. Las condiciones sólo se mantienen si el equipo al que esté conectada la unidad también funciona en condiciones SELV.*

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ADVERTENCIA: *sólo para Francia y Perú:*
esta unidad no puede recibir corriente de fuentes IT†. Si las fuentes de suministro de corriente son de tipo IT, esta unidad debe recibir 230 V (2P+T) a través de un transformador aislador con relación 1:1, con el punto de conexión secundario etiquetado como neutro conectado directamente a tierra.

†Impédance à la terre.

ADVERTENCIA: *puertos RJ-45. Son conectores de datos RJ-45 blindados. No pueden utilizarse como tomas de teléfono tradicionales estándar ni para conectar la unidad a una central de conmutación PBX tradicional ni a una red telefónica pública. Conecte sólo conectores de datos RJ-45, sistemas de telefonía de red local o teléfonos de red local a estas tomas. Es posible conectar cables de datos blindados o sin blindar con clavijas blindadas o sin blindar a estos conectores de datos.*

ADVERTENCIA: *Puertos de fibra óptica: seguridad óptica*

No mire nunca al láser de transmisión mientras esté encendido. No mire nunca directamente al puerto de transmisión de fibra óptica ni a los extremos del cable de fibra óptica mientras estén conectados.

ADVERTENCIA: *el uso de controles, ajustes de rendimiento o procedimientos distintos a los especificados en este documento puede producir emisiones de láser peligrosas.*

Importanti informazioni di sicurezza

AVVERTENZA: *le operazioni di installazione e rimozione dell'unità devono essere eseguite esclusivamente da personale qualificato.*

AVVERTENZA: *Se si installa Switch 4200 in uno stack con unità SuperStack II o SuperStack 3 più strette di Switch 4200, posizionare Switch 4200 sotto tali unità.*

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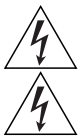

AVVERTENZA: *L'unità deve disporre di messa a terra.*

AVVERTENZA:*Per rispettare gli standard di sicurezza, è necessario collegare l'unità a una fonte di alimentazione dotata di messa a terra.*

AVVERTENZA: *set dei cavi di alimentazione*
Deve essere approvato per il paese in cui viene utilizzato.

Stati Uniti e Canada	■ "Il cavo deve avere l'approvazione UL e la certificazione CSA
	■ "La specifica minima per il cavo flessibile è: N. 18 AWG Tipo SV o SJ 3 conduttori
	■ "Il set di cavi deve avere una capacità nominale di almeno 10 A.
	■ "La spina di collegamento deve essere dotata di messa a terra, con configurazione NEMA 5-15P (15 A, 125 V) o NEMA 6-15P (15 A, 250 V).
Solo Regno Unito	■ "La spina di alimentazione deve essere conforme BS1363 (3 pin 13 amp) e dotata di un fusibile da 5 A conforme BS1362.
	■ "Il cavo dell'alimentazione di rete deve essere contrassegnato dai marchi <HAR> o <BASEC> ed essere di tipo H03VVF3GO.75 (minimo).
Solo Europa	■ "La spina di alimentazione deve essere conforme CEE 7/7 (tipo "SCHUKO").
	■ "Il cavo dell'alimentazione di rete deve essere contrassegnato dai marchi <HAR> o <BASEC> ed essere di tipo H03VVF3GO.75 (minimo).
Danimarca	■ "La spina di alimentazione deve essere conforme alla sezione 107-2-D1, standard DK2-1a o DK2
Svizzera	■ "La spina di alimentazione deve essere conforme SEV/ASE 1011

AVVERTENZA: *l'accoppiatore (il connettore all'unità e non la spina a muro) deve avere una configurazione abbinabile a una presa EN60320/IEC320.*

AVVERTENZA: *la presa deve trovarsi vicino all'unità ed essere facilmente accessibile. L'unico modo per rimuovere l'alimentazione dall'unità consiste nello scollegare il cavo di alimentazione dalla presa.*

AVVERTENZA: *questa unità funziona alle condizioni SELV (Safety Extra Low Voltage) previste dalla norma IEC 60950. Tali condizioni sono*

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mantenute solo se anche l'apparecchiatura a cui è collegata opera nelle stesse condizioni.

AVVERTENZA: *solo per Francia e Perù. Questa unità non può ricevere alimentazione di tipo IT†. Se l'alimentazione è di tipo IT, l'unità deve essere alimentata a 230 V (2P+T) tramite un trasformatore di isolamento con rapporto 1:1, con il punto di collegamento secondario contrassegnato come Neutro, collegato direttamente a terra.*
†Impédance à la terre.

AVVERTENZA: *le porte RJ-45 sono prese dati RJ-45 schermate. Non è pertanto possibile utilizzarle come normali prese telefoniche né per collegare l'unità a un PBX (Private Branch Exchange, centralino telefonico privato) o a una rete telefonica pubblica. Collegare a queste porte solo prese dati RJ-45, sistemi di telefonia o telefoni di rete. A queste prese dati è possibile collegare cavi dati schermati o non schermati con connettori schermati o non schermati.*

AVVERTENZA: *porte a fibre ottiche - Protezione degli occhi*

Non guardare mai il LED di trasmissione attraverso uno strumento ottico di ingrandimento quando è acceso. Non guardare mai direttamente la porta TX a fibre ottiche e le estremità del cavo a fibre ottiche quando sono accese.

AVVERTENZA: *l'esecuzione di procedure o regolazioni non previste dalle istruzioni fornite in questa guida può provocare emissioni laser nocive.*

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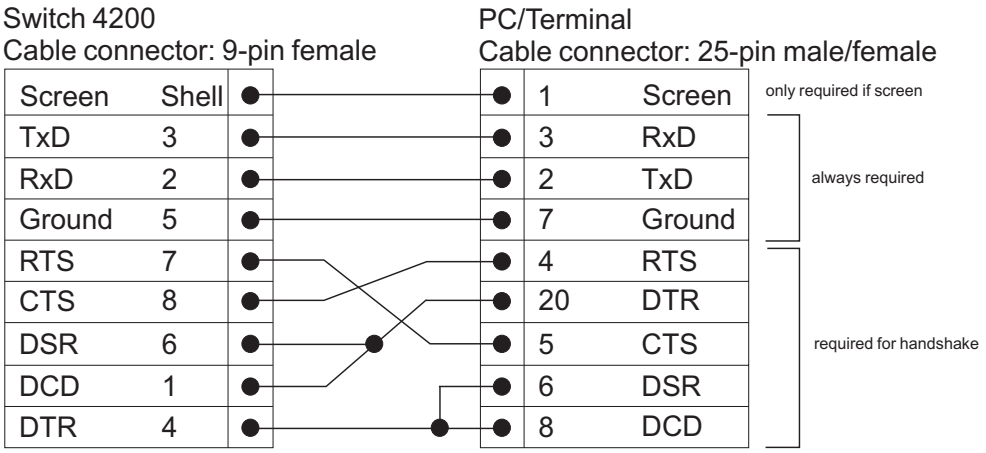
B PIN-OUTS

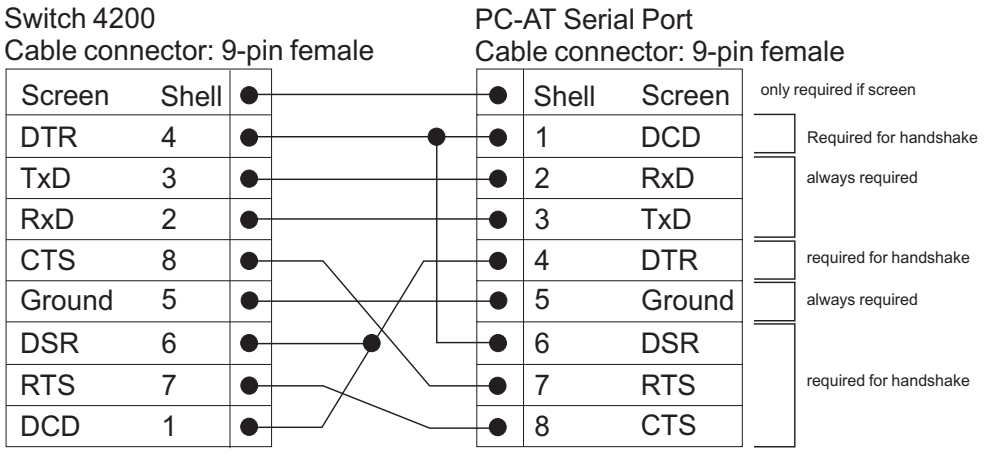
Null Modem Cable

9-pin to RS-232 25-pin



PC-AT Serial Cable

9-pin to 9-pin



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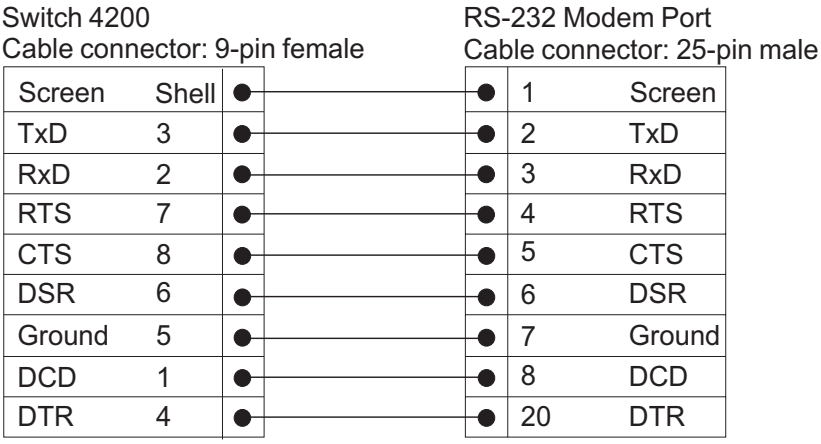
Modem Cable

9-pin to RS-232 25-pin



RJ-45 Pin Assignments

Pin assignments for ports configured as MDI and MDIX are given in Table 10 and Table 11.

Table 10 Pin assignments

Pin Number	10/100	1000
Ports configured as MDI		
1	Transmit Data +	Bidirectional Data A+
2	Transmit Data -	Bidirectional Data A-
3	Receive Data +	Bidirectional Data B+
4	Not assigned	Bidirectional Data C+
5	Not assigned	Bidirectional Data C-
6	Receive Data –	Bidirectional Data B-
7	Not assigned	Bidirectional Data D+
8	Not assigned	Bidirectional Data D-

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Table 11 Pin assignments

Pin Number	10/100	1000
Ports configured as MDIX		
1	Receive Data +	Bidirectional Data B+
2	Receive Data -	Bidirectional Data B-
3	Transmit Data +	Bidirectional Data A+
4	Not assigned	Bidirectional Data A-
5	Not assigned	Bidirectional Data D+
6	Transmit Data -	Bidirectional Data D-
7	Not assigned	Bidirectional Data C+
8	Not assigned	Bidirectional Data C-

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C TECHNICAL SPECIFICATIONS

Switch 4200 26-Port (3C17300A)

Physical Dimensions	Height: 44 mm (1.7 in.) x Width: 440 mm (17.3 in.) x Depth: 274 mm (10.8 in.) Weight: 2.4 kg (5.3 lbs)
Environmental Requirements	
Operating Temperature	0 ° to 40 °C (32 ° to 104 °F)
Storage Temperature	–40 ° to +70 °C (-40 ° to 158 °F)
Operating Humidity	10–95% relative humidity, non-condensing
Standards	EN60068 to 3Com schedule (Package testing: paras 2.1, 2.2, 2.30, and 2.32. Operational testing: paras 2.1, 2.2, 2.30 and 2.13).
Safety	
Agency Certifications	UL 60950-1, EN60950-1, CSA 22.2 No. 60950-1, IEC 60950-1
EMC	
Emissions	CISPRR 22 Class A, EN55022 Class A, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A, EN61000-3-3
Immunity	EN 55024
Heat Dissipation	30 watts maximum (102 Btu/h maximum)
Power Supply	
AC Line Frequency	50/60 Hz
Input Voltage	100–240 VAC
Current Rating	1 A (amp)(maximum)

(continued)

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Switch 4200 50-Port (3C17302A)

Physical Dimensions	Height: 44 mm (1.7 in.) x Width: 440 mm (17.3 in.) x Depth: 274 mm (10.8 in.) Weight: 2.83 kg (6.23 lbs)
Environmental Requirements	
Operating Temperature	0 ° to 40 °C (32 ° to 104 °F)
Storage Temperature	–40 ° to +70 °C (-40 ° to 158 °F)
Operating Humidity	10–95% relative humidity, non-condensing
Standards	EN60068 to 3Com schedule (Package testing: paras 2.1, 2.2, 2.30, and 2.32. Operational testing: paras 2.1, 2.2, 2.30 and 2.13).
Safety	
Agency Certifications	UL60950-1, EN60950-1, CSA 22.2 No. 60950-1, IEC 60950-1
EMC	
Emissions	CISPR 22 Class A, EN55022 Class A, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A, EN61000-3-3
Immunity	EN 55024
Heat Dissipation	30 watts maximum (102 Btu/h maximum)
Power Supply	
AC Line Frequency	50/60 Hz
Input Voltage	100–240 VAC
Current Rating	1 A (amps)(maximum)

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Switch 4200 28-Port (3C17304A)

Physical Dimensions	Height: 44 mm (1.7 in.) x Width: 440 mm (17.3 in.) x Depth: 274 mm (10.8 in.) Weight: 2.73 kg (6.00 lbs)
Environmental Requirements	
Operating Temperature	0 ° to 40 °C (32 ° to 104 °F)
Storage Temperature	–40 ° to +70 °C (-40 ° to 158 °F)
Operating Humidity	10–95% relative humidity, non-condensing
Standards	EN60068 to 3Com schedule (Package testing: paras 2.1, 2.2, 2.30, and 2.32. Operational testing: paras 2.1, 2.2, 2.30 and 2.13).
Safety	
Agency Certifications	UL60950-1, EN60950-1, CSA 22.2 No. 60950-1, IEC 60950-1
EMC	
Emissions	CISPR 22 Class A, EN55022 Class A, FCC Part 15 Subpart B Class A, ICES-003 Class A, VCCI Class A, EN61000-3-3
Immunity	EN 55024
Heat Dissipation	30 watts maximum (102 Btu/h maximum)
Power Supply	
AC Line Frequency	50/60 Hz
Input Voltage	100–240 VAC
Current Rating	1 A (amps)(maximum)

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D OBTAINING SUPPORT FOR YOUR PRODUCT

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- A list of system hardware and software, including revision level
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India	+61 2 9424 5179 or	P.R. of China	800 810 3033
	000800 650 1111	Singapore	800 6161 463
Indonesia	001 803 61009	S. Korea	080 333 3308
Japan	00531 616 439 or	Taiwan	00801 611 261
	03 3507 5984	Thailand	001 800 611 2000
Malaysia	1800 801 777		
New Zealand	0800 446 398		
Pakistan	+61 2 9937 5083		
You can also obtain support in this region using the following e-mail: **apr_technical_support@3com.com**			
Or request a repair authorization number (RMA) by fax using this number:			+ 65 543 6348
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France	0825 809 622	Portugal	707 200 123
Germany	01805 404 747	South Africa	0800 995 014
Hungary	06800 12813	Spain	9 021 60455
Ireland	1407 3387	Sweden	07711 14453
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Argentina	0 810 444 3COM	Haiti	57 1 657 0888
Aruba	1 800 998 2112	Honduras	AT&T +800 998 2112
Bahamas	1 800 998 2112	Jamaica	1 800 998 2112
Barbados	1 800 998 2112	Martinique	571 657 0888
Belize	52 5 201 0010	Mexico	01 800 849CARE
Bermuda	1 800 998 2112	Nicaragua	AT&T +800 998 2112
Bonaire	1 800 998 2112	Panama	AT&T +800 998 2112
Brazil	0800 13 3COM	Paraguay	54 11 4894 1888
Cayman	1 800 998 2112	Peru	AT&T +800 998 2112
Chile	AT&T +800 998 2112	Puerto Rico	1 800 998 2112
Colombia	AT&T +800 998 2112	Salvador	AT&T +800 998 2112
Costa Rica	AT&T +800 998 2112	Trinidad and Tobago	1 800 998 2112
Curacao	1 800 998 2112	Uruguay	AT&T +800 998 2112
Ecuador	AT&T +800 998 2112	Venezuela	AT&T +800 998 2112
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REGULATORY NOTICES

FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference to radio communications, in which case the user will be required to correct the interference at their own expense.

INFORMATION TO THE USER

If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient the receiving antenna.
- Relocate the equipment with respect to the receiver.
- Move the equipment away from the receiver.
- Plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

How to Identify and Resolve Radio-TV Interference Problems

This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

In order to meet FCC emissions limits, this equipment must be used only with cables which comply with IEEE 802.3.

CSA STATEMENT

This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe A respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

CE STATEMENT (EUROPE)

This product complies with the European Low Voltage Directive 73/23/EEC and EMC Directive 89/336/EEC as amended by European Directive 93/68/EEC.

Warning: This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

A copy of the signed Declaration of Conformity can be downloaded from the Product Support web page for the Switch 4200 Family (3C17300A, 3C17302A, 3C17304A) at http://www.3com.com. Also available at http://support.3Com.com/doc/3C1730XA_EU_DOC.pdf.

VCCI STATEMENT

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